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# Minnesota School Readiness Study



Developmental Assessment at Kindergarten Entrance

## Fall 2009



#### Acknowledgements

#### Minnesota School Readiness Study: Developmental Assessment at Kindergarten Entrance

The Minnesota School Readiness Study: Developmental Assessment at Kindergarten Entrance Fall 2009 was planned, implemented, and the report prepared by the Minnesota Department of Education (MDE).

Special thanks to the 105 elementary schools involved in the study, their principals, kindergarten teachers, support staff and the superintendents of the school districts. The observation and collection of developmental information by these kindergarten teachers on kindergarten children in their classrooms was essential to the study and is much appreciated.

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Date of Report: April 2010

#### Background

#### Minnesota School Readiness Study: Developmental Assessment at Kindergarten Entrance - Fall 2009

Research has shown, and continues to show that there is a critical relationship between early childhood experiences, school success, and positive life-long outcomes. This research has been a focal point for many states as they strive to reduce the growing achievement gap between less advantaged students and their same-aged peers in the educational system.

With no systematic process in place to assess children's school readiness, the Minnesota Department of Education in 2002 initiated a series of three yearly studies focused on obtaining a picture of the school readiness of a representative sample of Minnesota kindergartners as they enter school in the fall, and to evaluate changes in the percentage of children fully prepared for school at kindergarten entrance. The studies were well-received by the public, and during the 2006 Minnesota state legislative session, Governor Tim Pawlenty proposed and the Legislature appropriated funding for the study to be continued on an annual basis.

This report describes findings from the assessment of school readiness using a random sample of children entering kindergarten in Minnesota in Fall 2009. The data provides a picture of the ratings of entering kindergartners for the state across five domains of child development. The study provides information on school readiness for parents; school teachers and administrators; early childhood education and care teachers, providers and administrators; policymakers; and the public.

#### **Definition of School Readiness**

For purposes of the study, "school readiness" is defined as the skills, knowledge, behaviors and accomplishments that children know and can do as they enter kindergarten

in the following areas of child development: social and emotional development; approaches to learning; language and literacy development; creativity and the arts; cognition and general knowledge; and physical well being and motor development. This definition is consistent with school readiness definitions used by other states and the *Minnesota Early Childhood Indicators of Progress: Minnesota's Early Learning Standards* (2005).



#### **Assessing School Readiness**

The study is designed to capture a picture of the readiness of Minnesota children as they enter kindergarten and track readiness trends over time. To ensure that results are reliable and can be generalized to the entire population of Minnesota kindergartners, the study uses a 10 percent random sample of schools with entering kindergartners. This sample size generates data from approximately 6,000 kindergartners annually.

Given the complexities of assessing young children, the study is designed to ensure the assessment is appropriate, useful and is guided by best practices in the field of early childhood.



The study uses a developmentally appropriate observational assessment that allows children to demonstrate their knowledge and skills in various ways. The Work Sampling System (WSS®), a standards-based observational assessment system designed to provide information about individual student's learning and progress over time, is used for the assessment.

The assessment is aligned with the Minnesota Early Childhood Indicators of Progress and the K-12 Academic Standards and assesses all areas of child development including cognitive, social, emotional, physical and approaches to learning. These areas of development are represented by the five domains of the Work Sampling System Checklist — Personal and Social Development; Language and Literacy; Mathematical Thinking; The Arts; and Physical Development. Children's rate of development varies, therefore, the goal of the study is to assess a cohort of children's proficiency within and across these developmental domains and not establish whether or not children are ready for school with the use of a composite "ready" or "not ready" score.

Each domain and developmental indicator within the WSS® Developmental Checklist includes expected behaviors for children at that age or grade level. For each indicator, teachers used the following guidelines to rate the child's performance as:

**o Proficient** — indicating that the child can reliably and consistently demonstrate the skill, knowledge, behavior or accomplishment represented by the performance indicator.

**o In Process** — indicating that the skill, knowledge, behavior or accomplishment represented by the indicator are intermittent or emergent, and are not demonstrated reliably or consistently.

**o** Not Yet — indicating that the child cannot perform the indicator (i.e., the performance indicator represents a skill, knowledge, behavior or accomplishment not yet acquired).

Rubrics for each rating level were distributed to teachers at the start of the study. The rubrics, provided by the publisher and revised in 2009, provide additional detail for each indicator for a *Not Yet, In Process* or *Proficient* rating.

#### 2009 Results

A total of 6,392 kindergartners from 105 randomly selected elementary schools across the state were included in the Fall 2009 cohort. This reflects 11.2 percent of the entering kindergartners for the 2009-2010 school year.

The domain rankings by proficiency for the 2009 cohort are consistent with previous years of the study. Physical Development had the highest percentage of children assessed *Proficient* on average, followed in order by The Arts; Personal and Social Development; Mathematical Thinking; and Language and Literacy. Indicator rankings within each domain remain unchanged from 2008.

It is important to note that while there are trends towards increases in estimates of *In Process and Proficient* results, the trends are not outside the margin of error. Also, the existing data set does not allow for examination of potential reasons for shifts.

Table I - Results By Domain							
Domain/Result	Not Yet	In Process	Proficient				
Physical	3%	32%	65%				
Development	SE .4%	SE 2.5 %	SE 2.7%				
	6%	42%	53%				
The Arts	SE .7%	SE 2.9%	SE 3.3%				
Personal & Social	8%	39%	53%				
Development	SE .8%	SE 1.9%	SE 2.4%				
Language &	10%	40%	51%				
Literacy	SE 1.0%	SE 2.2%	SE 2.7%				
Mathematical	9%	42%	49%				
Thinking	SE .9%	SE 2.0%	SE 2.5%				

Table 1 - Results By Domain

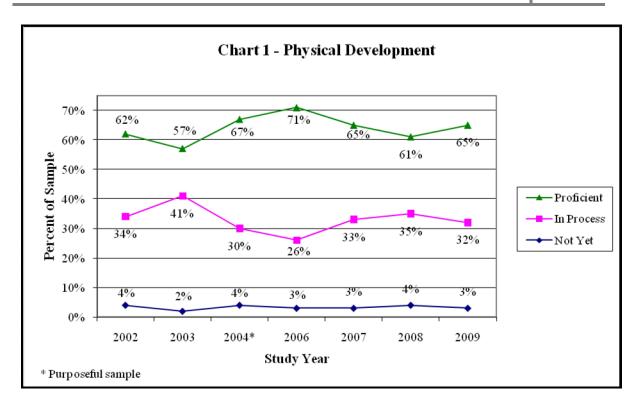
Note that categories may not add to 100% due to rounding and are adjusted for stratified cluster sampling.

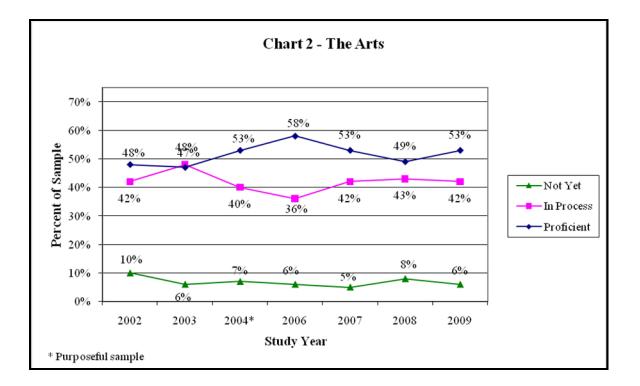


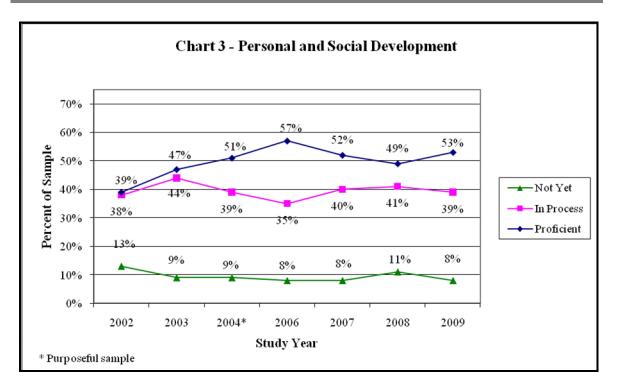
	Not Yet		In Process		Proficient	
Physical Development	Percent	N	Percent	N	Percent	N
Physical Development Average						
Score Summary	3%		32%		65%	
Performs some self-care tasks						
independently.	2%	157	28%	1,785	69%	4,415
Coordinates movements to						
perform simple tasks.	2%	150	33%	2,069	65%	4,130
Uses eye-hand coordination to						
perform tasks.	4%	230	36%	2,270	61%	3,860
The Arts						
The Arts Domain Average Score						
Summary	6%		42%		53%	
Participates in group music						
experiences.	4%	279	40%	2,549	56%	3,533
Participates in creative		T				
movement, dance and drama.	6%	404	42%	2,666	52%	3,290
Uses a variety of art materials						
for tactile experience and						
exploration.	6%	356	44%	2,783	51%	3,203
Responds to artistic creations or						
events.	8%	513	46%	2,899	46%	2,939
Personal and Social Development						
Personal and Social						
Development Domain Average						
Score Summary	8%		39%		53%	
Interacts easily with familiar						
adults.	5%	333	36%	2,293	59%	3,757
Shows eagerness and curiosity as						
a learner.	7%	429	37%	2,331	57%	3,610
Interacts easily with one or more						
children.	6%	393	37%	2,378	57%	3,615
Shows empathy and caring for						
others.	7%	464	38%	2,418	55%	3,480
Follows simple classroom rules	<b>5</b> 0/	100	100/	0.540	<b>7</b> 20/	
and routines.	7%	432	40%	2,562	53%	3,39
Manages transitions.	8%	530	39%	2,485	53%	3,364
Shows some self-direction.	8%	518	41%	2,639	51%	3,221
Seeks adult help when needed to						
resolve conflicts.	9%	569	43%	2,734	48%	3,062
Attends to tasks and seeks help						
when encountering a problem.	11%	726	42%	2,693	46%	2,964
Approaches tasks with flexibility						
and inventiveness.	14%	891	43%	2,715	43%	2,76

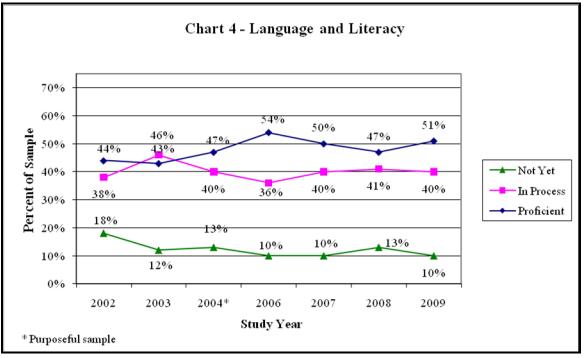
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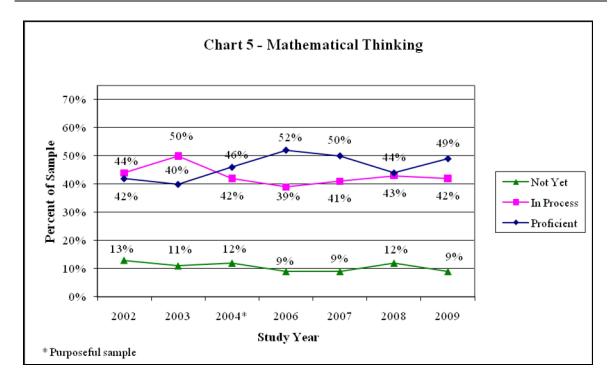
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	Not Y	et	In Process		Proficient	
Language and Literacy						
Language and Literacy Domain	1.00/		100/		510/	
Average Score Summary	10%		40%		51%	
Speaks clearly enough to be understood without contextual						
clues.	8%	533	34%	2,173	58%	3,672
Shows appreciation for books	0 /0	555	J <del>4</del> /0	2,175	3070	3,072
and reading.	5%	316	38%	2,394	57%	3,66
Ŭ						
Gains meaning by listening.	6%	397	42%	2,695	52%	3,28
Comprehends and responds to	80/	105	400/	2 5 4 0	520/	2 22
stories read aloud.	8%	485	40%	2,549	52%	3,32
Shows beginning understanding of concepts about print.	8%	529	40%	2,560	52%	3,29
Begins to develop knowledge	0 70	529	4070	2,300	3270	3,29
about letters.	8%	533	41%	2,612	51%	3,23
Follows two- or three-step	070	555	+1/0	2,012	5170	5,25
directions.	13%	836	37%	2,382	50%	3,16
Represents ideas and stories	1570	050	5110	2,302	2070	5,10
through pictures, dictation and						
play.	10%	614	42%	2,702	48%	3,06
Uses expanded vocabulary and				,		,
language arts for a variety of						
purposes.	15%	962	40%	2,552	45%	2,85
Uses letter-like shapes, symbols						
and letters to convey meaning.	13%	855	42%	2,645	45%	2,86
Demonstrates phonological						
awareness.	14%	917	44%	2,777	37%	2,67
Mathematical Thinking						
Mathematical Thinking Domain						
Average Score Summary	9%		42%		49%	
Begins to recognize and describe	770		4270		4770	
the attributes of shapes.	6%	387	42%	2,660	52%	3,33
Shows understanding of and uses	070	207	,,	_,,,,,,,	/ 0	2,20
several positional words.	9%	599	40%	2,564	50%	3,20
Shows beginning understanding				, -		., .
of number and quantity.	8%	487	44%	2,781	49%	3,11
Begins to use simple strategies				,		,
to solve mathematical problems.	12%	787	45%	2,871	42%	2,72











#### **Demographic and Domain Results**

The analysis of the data included examining how a particular child or family characteristic may affect that child's ratings while controlling for the effects of other demographic variables with which it may be confounded (e.g., a child from a family with a lower household income is more likely to have a parent with a lower education level). The result of *Not Yet* vs. *In Process* or *Proficient* for each domain was analyzed with respect to the demographic characteristics of gender, parent education level, household income, primary home language and race and ethnicity collected from parent surveys. (See Appendices E and F).

All 2009 analyses reported involved statistical estimation procedures that reflect the stratified cluster sampling design used (with school as the primary sampling unit), and include correction for finite population sampling. Observations within each stratum were weighted to reflect the statewide proportion of students in the stratum.

#### **Household Income**

The odds of being *In Process* or *Proficient* for a student whose household income was at or above 400 percent of the Federal Poverty Guidelines (FPG) were one and a half to three times as great as compared to a student whose household income was less than 250 percent FPG across the domains when holding all other variables constant.

#### **Parent Education Level**

Parent education level was found to be statistically significant in Physical Development and Health. Children with parents with graduate degrees had approximately five times the odds of being *in process* or *proficient* as compared to students with parents that had lower levels of education attainment when holding all other variables constant. There were no statistical differences by parent education level in the remaining domains of Language and Literacy, Mathematical Thinking, Personal and Social Development or The Arts. Work from the last federal census (National Household Education Surveys Program



2005) continues to describe the impact of maternal education on school readiness. In that study, maternal education levels were positively associated with school readiness. Previous years of this study did show a relationship between parent education level and children's results. This will continue to be analyzed.

#### **Primary Home Language**

Primary home language was not found to be statistically significant in any of the domains in the 2009 cohort when holding all other variables constant.

#### **Race and Ethnicity**

Students of color statistically had better odds of being *in process* or *proficient* as compared to white students in The Arts domain. There were no statistical differences by race/ethnicity in Physical Development and Health, Language and Literacy Development, Personal and Social Development, or Mathematical Thinking.

#### Gender

Gender continues to be a statistically significant factor in all domains. The odds of being *In Process* or *Proficient* for females were up to three times greater in the Personal and Social Development and Language and Literacy domains, as compared to males.

#### **Principal and Teacher Surveys**

As in previous years, the success of the study rested with the willingness of school principals and kindergarten teachers to participate. Participating school principals and kindergarten teachers were again given surveys to complete regarding their decision to participate, barriers to participation, and the associated workload and benefits. The following information is based upon the response of 9 principals (105 responses or 9 percent) and 91 kindergarten teachers (292 responses or 31 percent).

#### Limitations

Because children develop and grow along a continuum but at varied rates, the goal of the study is to assess children's proficiency within and across these developmental domains over time and not establish whether or not children, individually or in small groups, are ready for school with the use of a "ready" or "not ready" score. Nor is the study designed to provide information on the history or the future of an individual student.

Recent national reports have discussed the complexities in the development of state level accountability systems. Taking Stock: Assessing and Improving Early Childhood Learning and Program Quality (2007) and The National Academy of Science report *Early Childhood Assessment: Why, What and How?* (2008) details the necessary steps to use authentic assessment results, also referred to as instructional assessments, in accountability initiatives. The National Academy of Science reports that even in upper grades, extreme caution is needed in relying exclusively on child assessment and that for children birth to five "even more extreme caution is needed."

#### Discussion

Students in each demographic category were assessed *Not Yet, In Process* and *Proficient.* In line with national research, family household income was found to be a predictor across all domains for students with incomes under 250 percent of the Federal Poverty Guidelines. Race/ethnicity was found to be predictors only in The Arts domain. Across years, student's race/ethnicity status and primary home language have yielded mixed results. Gender is a predictor in Personal and Social Development and Language and Literacy. Future reports will continue to analyze these predictors in all domains.



#### Conclusions

The 2009 study again confirms that children enter kindergarten with a range of skills, knowledge, behaviors and accomplishments.

1. In all of the developmental domains assessed, a certain percentage of children entering kindergarten did not yet show the indicators of focus.

2. The results by household income are consistent with national research showing the impact of poverty on children's school readiness and school success.

3. The total percentage of students rated on average as not yet showing proficiency in each of the five developmental domains has remained consistent throughout the seven years of the study.

4. Schools with a higher percentage of entering kindergartners with disadvantaged backgrounds tend to have fewer children fully prepared for kindergarten at the beginning of the school year.

5. Using performance-based assessments such as the Work Sampling System® is appropriate when working with elementary school principals and kindergarten teachers to assess children's readiness as they enter kindergarten.

#### Recommendations

1. Continue to support parents in their role as children's first teachers. Early childhood and kindergarten teachers should communicate assessment data throughout the school year when discussing children's progress with parents.

2. Focus on improving children's early language and literacy and mathematical skills, but not to the neglect of their personal and social skills and development. Providing compensatory services in the area of literacy and mathematical thinking accelerates learning for young at-risk children.

3. Continue to examine the impact of parent education level on children's school readiness.

4. Target intervention strategies to children not yet demonstrating proficiency in at least one developmental domain.

5. Continue to work toward improving school readiness opportunities as there is a persistent percentage across the years of the study being assessed *Not Yet* in each domain.

6. Continue to work toward improving the quality of early childhood education and care programs in Minnesota by emphasizing the importance of teacher-child interactions and content-driven intentional curriculum and instruction. The most successful prekindergarten programs provide instructional content through programming that is sufficient in length and intensity to address learning needs.



7. Promote use of school readiness information as school district and community leaders work together to identify best practices and support children's transition to kindergarten.

#### Early Childhood Advisory Council

The Early Childhood Advisory Council (ECAC) looks to the annual School Readiness study as one measure of state progress on early learning. ECAC makes recommendations to the Governor and Legislature on how to effectively create a high-quality early childhood system in Minnesota in order to improve the educational outcomes of children. The Council's goal is to ensure that all children are school-ready by 2020 and is responsible



for fulfilling the duties required by federal and state statutes in the Governor's Executive Order 08-14. Duties of the Council required by federal law are described in the Improving Head Start for School Readiness Act of 2007 (PL 110-134). Additional duties are assigned to the Council by the Minnesota Legislature (M.S. 124D.141).

ECAC is currently awaiting funding through the American Recovery and Reinvestment Act (ARRA) for increasing activities including improving professional development, determining access and financing for early learning services and improving early learning program standards and state accountability efforts. The full ARRA application is available on the Council's Website at

http://education.state.mn.us/MDE/Learning\_Support/Early\_Learning\_Services/Adv\_Groups/Early\_Child\_Adv\_Council/index.html.

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### FOR TEACHER COMPLETION ONLY

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	contextual clues. (p. 6)	$\textcircled{N} \bigcirc \textcircled{P}$
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	print. (p. 7)	$\mathbb{N} \cup \mathbb{P}$
3	Begins to develop knowledge about letters. (p. 7)	$\mathbb{N} \oplus \mathbb{P}$
4	Comprehends and responds to stories read aloud. (p. 7)	$\mathbb{N} \oplus \mathbb{P}$
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1	Represents ideas and stories through pictures, dictation, and play. (p. 8)	
2		$\mathbb{N} \oplus \mathbb{P}$
_	convey meaning. (p. 8)	NDP
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	Mathematical processes	Fall
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	mathematical problems. (p. 11)	$\mathbb{N} \square \mathbb{P}$
В	Number and operations	Fall
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	and quantity. (p. 11)	$\mathbb{N} \oplus \mathbb{P}$
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1	Begins to recognize and describe the attributes of shapes. (p. 12)	
·2		$\mathbb{N} \oplus \mathbb{P}$
	positional words. (p. 12)	NDP
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A		Fall
1	Participates in group music experiences. (p. 21)	$\mathbb{N} \oplus \mathbb{P}$
2	Participates in creative movement, dance, and drama. (p. 21)	
3	Uses a variety of art materials for tactile experience	$\mathbb{N} \square \mathbb{P}$
-	and exploration. (p. 21)	$\mathbb{N} \cup \mathbb{P}$
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B		Fall
1	Responds to artistic creations or events. (p. 22)	$\mathbb{N} \oplus \mathbb{P}$
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	Physical Development and Health Gross motor development	Fall
1	Coordinates movements to perform simple tasks. (p. 23)	NDP
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В	Fine motor development	Fall
1	Uses eye-hand coordination to perform tasks. (p. 24)	$\mathbb{N} \oplus \mathbb{P}$
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1	Performs some self-care tasks independently. (p. 24)	NDP
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